

20030802.qrp v03\_n000.qrl.20030802

Date: Sat, 2 Aug 2003 19:03:06 EDT  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 3000

QRP-L Digest 3000

Topics covered in this issue include:

- 1) [155295] Re: etch a sketch??  
by Bruce Muscolino <w6toy@erols.com>
- 2) [155296] RE: BPL threat ( was: Re: VEC Petition)  
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 3) [155297] Re: etch a sketch??  
by Tom Severt <n2uhc@yahoo.com>
- 4) [155298] Re: Some things need to be explained before people will buy.  
by "Richard Brummer, K2JQ" <k2jq@rcn.com>
- 5) [155299] Re: Learning to SEND Morse  
by Lee Mairs <lmairs@direcway.com>
- 6) [155300] Digipan 7.1 or whatever  
by "Nils R. Young" <nilsbull@juno.com>
- 7) [155301] Re: Libretto 110CT CD-ROM  
by "Ron Polityka" <wb3aal@verizon.net>
- 8) [155302] Huntsville Alabama Hamfest  
by "Frank Emens" <femens@hiwaay.net>
- 9) [155303] More on Huntsville Hamfest  
by "Frank Emens" <femens@hiwaay.net>
- 10) [155304] USA-750 Lighthouse / USA-167 Lightship In the PALLW  
by "Ron Polityka" <wb3aal@verizon.net>
- 11) [155305] Fox - Summer Fox Hunt Teams Results.  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 12) [155306] Re: etch a sketch  
by "Jim Johnson" <radio5@techie.com>
- 13) [155307] Re: BPL threat ( was: Re: VEC Petition)  
by "carl seyersdahl" <carlseye@tampabay.rr.com>
- 14) [155308] ARRL Diamond Club  
by "Paul Womble" <pwomble@verizon.net>
- 15) [155309] Fox - Summer Fox Hunt Teams Results.  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 16) [155310] Fox - Summer Fox Hunt Teams Results.  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 17) [155311] re: [mizuhoradio] Mizuho part availability  
by "Adam Vazquez Kb2Jpd" <adamvaz@palm.net>
- 18) [155312] fwd:[mizuhoradio] Mizuho part availability  
by "Adam Vazquez Kb2Jpd" <adamvaz@palm.net>
- 19) [155313] Re: BPL threat ( was: Re: VEC Petition)

by Alex <kr1st@amsat.org>

20) [155314] RE: etch a sketch??  
by "Mike, KI8IK" <KI8IK@comcast.net>

21) [155315] Re: Learning to SEND Morse  
by "Mike Yetsko" <myetsko@insydesw.com>

22) [155316] PSK31 QSO using IC-703 with driver transistor removed from radio!  
Get DOWN!  
by "Bill, N4QA" <n4qa@hotmail.com>

23) [155317] Re: etch a sketch??  
by "Mike Yetsko" <myetsko@insydesw.com>

24) [155318] Re: PSK31 QSO using IC-703 with driver transistor removed from  
radio! Get DOWN!  
by K7VO <k7vo@earthlink.net>

25) [155319] Re: [OT] Aluminum Welding Question  
by "David Fifield" <dave@redhotradio.com>

26) [155320] An OUTSTANDING QRPpp Mode  
by John R Kirby <n3aaz-qrp@juno.com>

27) [155321] Re: etch a sketch??  
by Bruce Muscolino <w6toy@erols.com>

28) [155322] Re: ARRL Diamond Club  
by Fghester@aol.com

29) [155323] Re: Atmel-AVR Processors  
by "w8diz" <w8diz@cinci.rr.com>

30) [155324] Info on 117N7 rig  
by Steve Smith <sigcom@juno.com>

31) [155325] Interesting webpage!  
by Rob Matherly <w0jrm@arrl.net>

32) [155326] Re: Interesting webpage!  
by "NR5A" <nr5a@rap.midco.net>

33) [155327] RE: etch a sketch??  
by "Norman Schklar" <norman@schklar.com>

34) [155328] Re: Info on 117N7 rig  
by "Bill, N4QA" <n4qa@hotmail.com>

35) [155329] FOX: Final log for N2WW 7/27  
by "Marshall Emm" <mgemm@mtechnologies.com>

36) [155330] FOX: ET Notice for Tomorrow  
by "Marshall Emm" <mgemm@mtechnologies.com>

37) [155331] Re: Info on 117N7 rig  
by Bruce Muscolino <w6toy@erols.com>

38) [155332] Re: Info on 117N7 rig  
by Bruce Muscolino <w6toy@erols.com>

39) [155333] 40M QRPp beacon  
by "Paul Stroud" <aa4xx@bellsouth.net>

40) [155334] Re: Atmel-AVR Processors  
by Brian Short <bshort4@cox.net>

41) [155335] Re: Favorite NiMH Charger?  
by dhuggard@cts.com (Doug Huggard)

42) [155336] OT: Linux Computer at Sam's Club !

by "Michael Melland" <w9wis@charter.net>  
43) [155337] 2004 Fort Tuthill  
by "Alan Kaul, W6RCL" <alan.kaul@worldnet.att.net>

-----  
Date: Fri, 01 Aug 2003 17:40:08 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: kd7snx@earthlink.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [155295] Re: etch a sketch??  
Message-ID: <3F2ADE38.CA0B5233@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The seams may be ultrasonically welded. This is often the case (situation) with inexpensive plastic products. There is almost no neat and clean way to get them open.

73

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Date: Fri, 1 Aug 2003 17:51:37 -0400  
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [155296] RE: BPL threat ( was: Re: VEC Petition)  
Message-ID: <721D3436A7C2B344A301FD4A413C71A901735554@kosh.arrlhq.org>  
content-class: urn:content-classes:message  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

>That only perhaps 1% of active hams made donations and half that number =  
filed=20  
> comments is a sad commentary on the state of ham radio today.

Not necessarily. Many of that 99% are supporting ARRL to the extent =  
they believe right for them, through the financial contribution of their =  
membership. I have personally made contributions to several of the =  
League's funds, but that is because I can afford to do so. If my =  
fortunes change (I could finally honk off my boss badly enough to get =  
canned), I would be among the 99%, but would continue to support the =  
League as a member.

Don't be too hard on those that have not made a contribution, because =

each of us must judge for themselves where the right balance point is.

All I know is that I am mighty tired after putting on 1300 miles in 4 = days, with testing in between. Unfortunately, there wasn't any time for = socializing, though one of our QRP bretheren offered to help me when I = was near Allentown (thanks, Joel!)

The article at <http://www.arrl.org/news/stories/2003/07/30/4/?nc=3D1> = outlines the tip of the iceberg. I have made extensive use of the ARRL = Lab staff, who have both helped me with some of the technical parts of = all this and covered for some of the work I am not doing while I am = working on BPL. The ARRL DC team has been working on various aspects of = this, too, from shaking the bushes to talking to FCC folks to talking to = some of their contacts. The FCC just extended the Reply Comment date to = August 20, at the request of one of the major electric utility = consortiums. But the process will not be over then. The FCC will then = take an unknown amount of time to decide to propose any rules changes, = then go through an entire Notice of Proposed Rulemaking process, = starting this all over again. I have purchased the equipment I needed = to get this job done, and have been able to rearrange nearly every = priority, thanks to those that are helping to make this happen. Without = that help, I could manage to donate a few hours now and again, but this = one won't be done by volunteers alone. To those that are helping, with = membership and contributions, it is I who thank YOU, because the only = reason I am able to do what I do is that 160,000 of you guys chipped in!

I have personally heard this stuff, up close and personal. I am not one = to take extreme positions, but my choice of words was exact. The worst = of the interference from this was devastating to HF communications, = occupying many MHz and unbelievably strong for miles up and down the = line carrying the signal. =20

73,=20

Ed Hare, W1RFI

ARRL Lab

225 Main St

Newington, CT 06111

Tel: 860-594-0318

Internet: [w1rfi@arrl.org](mailto:w1rfi@arrl.org)

Web: <http://www.arrl.org/tis>

ARRL is the National Association for Amateur Radio. It is supported by = membership dues, individual contributions and the sale of publications = and advertising. For more information about ARRL, go to = <http://www.arrl.org/news/features/inside-your-league.html>. For more = information about membership, go to <http://www.arrl.org/join.html>. Your = contribution can also help support ARRL's ongoing efforts to protect = Amateur spectrum. Go to =

<https://www.arrl.org/forms/development/donations/basic/> to learn more =  
about the ways you can support the ARRL programs and activities of most =  
importance to you. You can help ARRL protect Amateur Radio for you and =  
future generations to enjoy.

> -----Original Message-----

> From: K7VO [mailto:k7vo@earthlink.net]

> Sent: Friday, August 01, 2003 3:45 PM

> To: Low Power Amateur Radio Discussion

> Subject: BPL threat ( was: Re: VEC Petition)

>=20

>=20

> On Fri, 01 Aug 2003 10:03:06 -0400

> Alex <krlst@amsat.org> wrote:

>=20

> > <quote>

> > Members of the Amateur Radio

> > community have responded to the potential threat posed by Broadband

> > over Power Line (BPL) by opening their wallets in a most generous

> > fashion.

> >=20

> > ...3690 donors

> >=20

> > ...1900--who filed initial comments

> > </quote>

>=20

> There are over 700,000 licensed hams. Even if only half that=20

> number use

> their licenses, the numbers of donors and those who filed comments are

> pitifully small. I believe, as Ed Hare and others have=20

> stated, that BPL

> is the greatest single threat facing our bands ever. That=20

> only perhaps

> 1% of active hams made donations and half that number filed=20

> comments is

> a sad commentary on the state of ham radio today.

> >=20

> > I think I wouldn't waste much time wondering about what people waste

> > their time on,

>=20

> I don't have to wonder. It's plainly evident if I keep my eyes open.

>=20

> > and I certainly would not go by what I see on Eham.net,

> > QRZ.com or on email lists as a measure on how much energy=20

> is spent on

> > which issue.

>=20

> They seem to be a pretty good window on the active members of the ham  
> community. Yes, there is a silent majority, and they are even less  
> likely to act.  
>=20  
> > Bbtw, it's interesting to note that Ed quantifies the RFI=20  
> generated by  
> > BPL as "devastating". I think that's the first time I've=20  
> read someone  
> > who actually tested it in the US describe it. I wonder if sound  
> > samples are available of these tests. Just like Ed's=20  
> picture, it would  
> > say more than a thousand words. :-)  
>=20  
> I'd like to hear that as well. \*IF\* BPL is rolled out it=20  
> would mean the  
> end of HF and 6m QRP, and possibly the end of HF ham radio as we have  
> known it. Even if you could still make contacts running full legal  
> power, who is the FCC going to side with if you interfere with 23  
> neighbors' internet connectivity running your big amp? The FCC has  
> already imposed quiet hours on hams for interference with supposedly  
> unprotected Part 15 devices, and I suspect BPL users would outnumber  
> hams by quite a large number.  
>=20  
> The arguments I see from those who say not to bother fighting the BPL  
> fight fall into mainly two categories: =20  
>=20  
> The first group expects that it simply won't happen. Somehow=20  
> DOD or HSA  
> will object and the NTIA will stop the FCC in its tracks. Considering  
> that the NTIA posted comments in favor of BPL I would not hold my  
> breath. Sure, DOD or HSA frequencies will be protected. Ham  
> frequencies? I wonder if we're important enough to worry=20  
> about. Others  
> simply don't believe BPL will be financially successful. Whatever the  
> "I don't believe it" rationale, this seems to me like an ostrich with  
> it's head in the sand approach. Sure, it may not happen, but wouldn't  
> it be better to do everything possible to insure that considering the  
> nature of the threat?  
>=20  
> The second group believes that the the FCC has been bought=20  
> and paid for  
> by the electric utilities and that BPL is inevitable and unstoppable.=20  
> Considering how much flack the Commission has taken over broadcast  
> deregulation, to the point that Congress has gotten involved and  
> Chairman Powell is reported to be on the way out, it is clear that  
> public pressure can override that sort of big money narrow commercial  
> interest. The two Democratic appointees to the FCC have been=20  
> qualified

> in their support of BPL, saying it was a great idea IF harmful  
> interference can be avoided. We don't know who would fill the vacancy  
> if Michael Powell steps down or what their views are. This=20  
> is anything  
> but a done deal. Yes, there are big dollars pushing BPL. =20  
> That means we  
> need to push back all the harder and find allies in other services who  
> will be affected.  
>=20  
> The fact is there is nothing to do right now but wait for the NPRM and  
> support the League in their research and lobbying efforts. =20  
> I, for one,  
> am not ready to buy a big amp or move to 144MHz and above. I am not  
> ready to limit my DXing to satellites and Echolink/IRLP. I filed my  
> comments, and as soon as finances permit I'll contribute that way as  
> well. I can't think of anything more important to ham radio than  
> stopping BPL or making sure that it does not interfere with amateur  
> communications.  
>=20  
> OK, I'm off my soapbox.  
>=20  
> 72/73,  
> Caity  
> K7VO  
>=20

-----  
Date: Fri, 1 Aug 2003 14:56:34 -0700 (PDT)  
From: Tom Severt <n2uhc@yahoo.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [155297] Re: etch a sketch??  
Message-ID: <20030801215634.75175.qmail@web9605.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I don't know how to open an etch-a-sketch, but I  
imagine they probably seal them up at the factory for  
the same reason you would only want to try to open one  
outdoors... to keep all that silver powder from  
getting everywhere.

=====

Tom Severt N2UHC  
<http://www.geocities.com/n2uhc>

-----

Do you Yahoo!?  
Yahoo! SiteBuilder - Free, easy-to-use web site design software  
<http://sitebuilder.yahoo.com>

-----  
Date: Fri, 1 Aug 2003 18:00:00 -0400  
From: "Richard Brummer, K2JQ" <k2jq@rcn.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Cc: <K5BDZ@aol.com>  
Subject: [155298] Re: Some things need to be explained before people will buy.  
Message-ID: <03be01c35878\$41703ba0\$6501a8c0@cable.rcn.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Is that kinda like selling refrigerators to Eskimos ?     ( - :)

It's 'cause he's a teacher, and teachers are good at that..... ( - :)

Dick K2JQ  
----- Original Message -----  
From: <K5BDZ@aol.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Sent: Friday, August 01, 2003 9:16 AM  
Subject: Re: Some things need to be explained before people will buy.

> WOW!  
>  
> Doug could explain sand to a camel, and then sell it by the grain.  
>  
> Great job, Doug!  
>  
> Bill K5BDZ

-----  
Date: Fri, 01 Aug 2003 18:10:47 -0400  
From: Lee Mairs <lmairs@direcway.com>  
To: myetsko@insydesw.com,  
        Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [155299] Re: Learning to SEND Morse  
Message-ID: <009001c35879\$c59d3fd0\$3b6d020a@boomer>  
MIME-version: 1.0



Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

You think that's bad? In NOrthern Virginia \_every\_ phone dialing requires an area code!

73 de Lee  
km4yy/8

----- Original Message -----

From: "Mike Yetsko" <myetsko@insydesw.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Friday, August 01, 2003 2:29 PM  
Subject: Re: Learning to SEND Morse

> Maybe it's time to complain about the software. I mean, if it's smart  
> enough to know it's wrong, how come it doesn't know what's right?  
>  
> I'm also upset at the phone company. I mean, why have a message  
> that says "If you want to place a long distance call, you must dial 1..."  
>  
> Hey, you KNOW I want to make a long distance call, do it anyway!  
>  
> Actually... I AM upset at the phone company. They just flipped the  
> state of that on a lot of the numbers I dial from needing a 1 to not  
> needing a 1, or the other way. Ticks me off, as I now have to change  
> about 75 numbers in my autodialer... For the THIRD time!  
>  
> Mike  
>  
>

-----  
Date: Fri, 1 Aug 2003 18:14:58 -0400  
From: "Nils R. Young" <nilsbull@juno.com>  
To: QRP-L@lehigh.edu  
Subject: [155300] Digipan 7.1 or whatever  
Message-ID: <20030801.181519.-285277.1.nilsbull@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Ganglia,

Ok, so I read enough to be dangerous. I downloaded Digipan 7.1 and installed it (special) so it wouldn't go over the top of the older version that I been runnin' here at the estancia for years. Without problems.

When I open the program, the TX line goes on and the radio goes into (guess?) transmit. No audio. Just the radio goes into TX. Both radios. (The '706 & the '718, depending on which one I've selected for torture.)

When I smack the TX/RX button (F9) the radio stays in TX but I then get tones going out the pipe. Real loud tones going out the pipe.

And the radio's still in TX.

This he don't happen when I use the older version whats been on the computer in question since December of 2002.

Any hints?

And yes, I tried setting the com port. If I click both RTS and DTR to Zero (no check mark in da box), the radio goes into receive and then right back into transmit. Only when I put the com port at "none" does the radio not go into transmit when the program starts.

And I was looking so forward to having another 16 tones to worry about.

Not that it's gonna make any difference in 500 million years when it's all gonna be TOAST!

73

Nils

-----  
Nils R. Bull Young -- W8IJN -- La Estancia de los Guajolotes Sonrientes  
-- <http://w8ijn.tripod.com> -- <http://members.fortunecity.com/nilsbull>  
--

"If you can see this, thank a trilobite!"

-----  
The best thing to hit the internet in years - Juno SpeedBand!  
Surf the web up to FIVE TIMES FASTER!  
Only \$14.95/ month - visit [www.juno.com](http://www.juno.com) to sign up today!

-----  
Date: Fri, 1 Aug 2003 18:51:41 -0400  
From: "Ron Polityka" <[wb3aal@verizon.net](mailto:wb3aal@verizon.net)>  
To: ". QRP-L" <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>

Subject: [155301] Re: Libretto 110CT CD-ROM  
Message-ID: <000d01c3587f\$79c0b870\$0200a8c0@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I would like to thank all the people that sent me e-mails about the Libretto 110CT.

I got the CD-Rom to work.

72 & Good DX  
Ron de WB3AAL  
wb3aal@verizon.net  
www.n3epa.org

-----  
Date: Fri, 01 Aug 2003 18:21:47 -0500  
From: "Frank Emens" <femens@hiwaay.net>  
To: qrp-l@lehigh.edu  
Subject: [155302] Huntsville Alabama Hamfest  
Message-ID: <3F2AAFBB.23118.1B69508@localhost>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

You guys in the Southeast might start looking toward the Huntsville Alabama Hamfest on the 16th and 17th of August. It's a great event all indoors and air-conditioned (appropriate for mid August.)

We a special emphasis on QRP, mainly since we haven't found anyone willing and able to organize anything. However there'll be a full flea market and big array of dealers present -- including one of Ten-Tec's rare appearances at a hamfest.

Larry

Price, President of IARU and head of the amateur delegation to WRC-2003 will be there to report on this year's session.

There'll be lots of stuff going on. Check <http://www.huntsvillehamfest.org> for details  
and Y'all Come, Y'hear?

-----  
Date: Fri, 01 Aug 2003 18:25:32 -0500  
From: "Frank Emens" <femens@hiwaay.net>  
To: qrp-1@lehigh.edu  
Subject: [155303] More on Huntsville Hamfest  
Message-ID: <3F2AB09C.15536.1BA041B@localhost>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

Forgot to add that Jim Haynie, President of ARRL will be present also.

-----  
Date: Fri, 1 Aug 2003 19:27:37 -0400  
From: "Ron Polityka" <wb3aal@verizon.net>  
To: ". QRP-L" <qrp-1@Lehigh.EDU>  
Subject: [155304] USA-750 Lighthouse / USA-167 Lightship In the PALLW  
Message-ID: <006501c35884\$7ea648a0\$0200a8c0@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello,

Look for WB3AAL operating from the following this weekend, August 2 & 3, 2003.  
I will be giving out 2 QSO per each station contacted.

USA-750      Seven Foot Knoll Lighthouse  
USA-167      Chesapeake Lightship

Both are in Baltimore, MD. We should be on the air sometime between 13:00 & 14:00 UTC. We will be on the air until 21:00 UTC, we plan on taking a dinner at this time. We should be back on the air around 00:00 UTC.

Check out [www.n3epa.org](http://www.n3epa.org) , for more information click on Special Events. Also check out <http://arlhs.com/> to find out what is going on this weekend and the frequencies that you can find the other lighthouses and lightships.

73,  
Ron de WB3AAL  
ARLHS #423  
Keep The Flame !  
[wb3aal@verizon.net](mailto:wb3aal@verizon.net)

www.n3epa.org/

US Lighthouse Society  
Chesapeake Chapter

-----  
Date: Fri, 1 Aug 2003 17:39:57 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,  
Low Power Group <qrp-1@LeHigh.EDU>  
Subject: [155305] Fox - Summer Fox Hunt Teams Results.  
Message-ID: <Pine.LNX.4.33.0308011738190.2922-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #14 - K5TR -

The Cajun Thunder - 38

The Cheeseheads - 0

Wayne - K5E0A  
Vern - AA50  
Wayne - N5YFC  
Jim - N5IB  
Mike - VA6MJT

Jerry - N9AW  
Rick - NK9G  
Jim - WA9TZE  
Gary - W9XT  
and one more.

The NE-TX Tornados - 56

Lew - N5ZE \*  
Joe - KK5NA  
Wayne - W5KDJ  
Doc - W5TB \*  
George - W5YR

...any corrections, please e-mail me direct...72 - Bruce (VE5RC+VE5QRP)

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Date: Fri, 01 Aug 2003 19:31:40 -0500  
From: "Jim Johnson" <radio5@techie.com>  
To: qrp-1@Lehigh.EDU  
Subject: [155306] Re: etch a sketch  
Message-ID: <20030802003140.67088.qmail@mail.com>  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Disposition: inline  
Content-Transfer-Encoding: 7bit  
MIME-Version: 1.0

Would not the coating of aluminum powder and plastic beads make a big mess?

---

Sent by ePrompter, the premier email notification software.  
Free download at <http://www.ePrompter.com>.

--

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Sign-up for your own FREE Personalized E-mail at Mail.com  
<http://www.mail.com/?sr=signup>

CareerBuilder.com has over 400,000 jobs. Be smarter about your job search  
<http://corp.mail.com/careers>

---

Date: Fri, 1 Aug 2003 20:39:46 -0400  
From: "carl seyersdahl" <carlseye@tampabay.rr.com>  
To: <w1rfi@arrl.org>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [155307] Re: BPL threat ( was: Re: VEC Petition)  
Message-ID: <003001c3588e\$93285480\$e5034918@tampabay.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This msg. is intended for all those out there who value their license and their ability to operate on the HF bands.

the present day challenge to the HF bands reminds me of the problems we had back in the 50's, with the interference we had from TV 's . On 160 mtrs. we often had serious problems from tv's as far as 10-15 miles away, from the harmonics of the horizontal oscillator.

I can remember many times tracking these problems down, with the local radio club in east central kansas!!!! If the tv's could cause this kind of trouble , think what BPL could do!!!! those of you today cannot likely believe what I'm talking about , but the other old timers will know!!!!

carl / kz5ca

----- Original Message -----

From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, August 01, 2003 5:51 PM

Subject: RE: BPL threat ( was: Re: VEC Petition)

> >That only perhaps 1% of active hams made donations and half that number  
filed

> > comments is a sad commentary on the state of ham radio today.

>

> Not necessarily. Many of that 99% are supporting ARRL to the extent they  
believe right for them, through the financial contribution of their  
membership. I have personally made contributions to several of the League's  
funds, but that is because I can afford to do so. If my fortunes change (I  
could finally honk off my boss badly enough to get canned), I would be among  
the 99%, but would continue to support the League as a member.

>

> Don't be too hard on those that have not made a contribution, because each  
of us must judge for themselves where the right balance point is.

>

> All I know is that I am mighty tired after putting on 1300 miles in 4  
days, with testing in between. Unfortunately, there wasn't any time for  
socializing, though one of our QRP bretheren offered to help me when I was  
near Allentown (thanks, Joel!)

>

> The article at <http://www.arrl.org/news/stories/2003/07/30/4/?nc=1>  
outlines the tip of the iceberg. I have made extensive use of the ARRL Lab  
staff, who have both helped me with some of the technical parts of all this  
and covered for some of the work I am not doing while I am working on BPL.  
The ARRL DC team has been working on various aspects of this, too, from  
shaking the bushes to talking to FCC folks to talking to some of their  
contacts. The FCC just extended the Reply Comment date to August 20, at the  
request of one of the major electric utility consortiums. But the process  
will not be over then. The FCC will then take an unknown amount of time to  
decide to propose any rules changes, then go through an entire Notice of  
Proposed Rulemaking process, starting this all over again. I have purchased  
the equipment I needed to get this job done, and have been able to  
rearrange nearly every priority, thanks to those that are helping to make  
this happen. Without that help, I!

> could manage to donate a few hours now and again, but this one won't  
done by volunteers alone. To those that are helping, with membership and  
contributions, it is I who thank YOU, because the only reason I am able to  
do what I do is that 160,000 of you guys chipped in!

>

> I have personally heard this stuff, up close and personal. I am not one  
to take extreme positions, but my choice of words was exact. The worst of  
the interference from this was devastating to HF communications, occupying

many MHz and unbelievably strong for miles up and down the line carrying the signal.

>

> 73,

> Ed Hare, W1RFI

> ARRL Lab

> 225 Main St

> Newington, CT 06111

> Tel: 860-594-0318

> Internet: w1rfi@arrl.org

> Web: <http://www.arrl.org/tis>

>

> ARRL is the National Association for Amateur Radio. It is supported by membership dues, individual contributions and the sale of publications and advertising. For more information about ARRL, go to <http://www.arrl.org/news/features/inside-your-league.html>. For more information about membership, go to <http://www.arrl.org/join.html>. Your contribution can also help support ARRL's ongoing efforts to protect Amateur spectrum. Go to <https://www.arrl.org/forms/development/donations/basic/> to learn more about the ways you can support the ARRL programs and activities of most importance to you. You can help ARRL protect Amateur Radio for you and future generations to enjoy.

>

>

> > -----Original Message-----

> > From: K7VO [mailto:k7vo@earthlink.net]

> > Sent: Friday, August 01, 2003 3:45 PM

> > To: Low Power Amateur Radio Discussion

> > Subject: BPL threat ( was: Re: VEC Petition)

> >

> >

> > On Fri, 01 Aug 2003 10:03:06 -0400

> > Alex <kr1st@amsat.org> wrote:

> >

> > > <quote>

> > > Members of the Amateur Radio

> > > community have responded to the potential threat posed by Broadband

> > > over Power Line (BPL) by opening their wallets in a most generous

> > > fashion.

> > >

> > > ...3690 donors

> > >

> > > ...1900--who filed initial comments

> > > </quote>

> >

> > There are over 700,000 licensed hams. Even if only half that

> > number use

> > their licenses, the numbers of donors and those who filed comments are



> > pitifully small. I believe, as Ed Hare and others have  
> > stated, that BPL  
> > is the greatest single threat facing our bands ever. That  
> > only perhaps  
> > 1% of active hams made donations and half that number filed  
> > comments is  
> > a sad commentary on the state of ham radio today.  
> > >  
> > > I think I wouldn't waste much time wondering about what people waste  
> > > their time on,  
> >  
> > I don't have to wonder. It's plainly evident if I keep my eyes open.  
> >  
> > > and I certainly would not go by what I see on Eham.net,  
> > > QRZ.com or on email lists as a measure on how much energy  
> > is spent on  
> > > which issue.  
> >  
> > They seem to be a pretty good window on the active members of the ham  
> > community. Yes, there is a silent majority, and they are even less  
> > likely to act.  
> >  
> > > Bbtw, it's interesting to note that Ed quantifies the RFI  
> > generated by  
> > > BPL as "devastating". I think that's the first time I've  
> > read someone  
> > > who actually tested it in the US describe it. I wonder if sound  
> > > samples are available of these tests. Just like Ed's  
> > picture, it would  
> > > say more than a thousand words. :-)  
> >  
> > I'd like to hear that as well. \*IF\* BPL is rolled out it  
> > would mean the  
> > end of HF and 6m QRP, and possibly the end of HF ham radio as we have  
> > known it. Even if you could still make contacts running full legal  
> > power, who is the FCC going to side with if you interfere with 23  
> > neighbors' internet connectivity running your big amp? The FCC has  
> > already imposed quiet hours on hams for interference with supposedly  
> > unprotected Part 15 devices, and I suspect BPL users would outnumber  
> > hams by quite a large number.  
> >  
> > The arguments I see from those who say not to bother fighting the BPL  
> > fight fall into mainly two categories:  
> >  
> > The first group expects that it simply won't happen. Somehow  
> > DOD or HSA  
> > will object and the NTIA will stop the FCC in its tracks. Considering  
> > that the NTIA posted comments in favor of BPL I would not hold my

> > breath. Sure, DOD or HSA frequencies will be protected. Ham  
> > frequencies? I wonder if we're important enough to worry  
> > about. Others  
> > simply don't believe BPL will be financially successful. Whatever the  
> > "I don't believe it" rationale, this seems to me like an ostrich with  
> > it's head in the sand approach. Sure, it may not happen, but wouldn't  
> > it be better to do everything possible to insure that considering the  
> > nature of the threat?  
> >  
> > The second group believes that the the FCC has been bought  
> > and paid for  
> > by the electric utilities and that BPL is inevitable and unstoppable.  
> > Considering how much flack the Commission has taken over broadcast  
> > deregulation, to the point that Congress has gotten involved and  
> > Chairman Powell is reported to be on the way out, it is clear that  
> > public pressure can override that sort of big money narrow commercial  
> > interest. The two Democratic appointees to the FCC have been  
> > qualified  
> > in their support of BPL, saying it was a great idea IF harmful  
> > interference can be avoided. We don't know who would fill the vacancy  
> > if Michael Powell steps down or what their views are. This  
> > is anything  
> > but a done deal. Yes, there are big dollars pushing BPL.  
> > That means we  
> > need to push back all the harder and find allies in other services who  
> > will be affected.  
> >  
> > The fact is there is nothing to do right now but wait for the NPRM and  
> > support the League in their research and lobbying efforts.  
> > I, for one,  
> > am not ready to buy a big amp or move to 144MHz and above. I am not  
> > ready to limit my DXing to satellites and Echolink/IRLP. I filed my  
> > comments, and as soon as finances permit I'll contribute that way as  
> > well. I can't think of anything more important to ham radio than  
> > stopping BPL or making sure that it does not interfere with amateur  
> > communications.  
> >  
> > OK, I'm off my soapbox.  
> >  
> > 72/73,  
> > Caity  
> > K7VO  
> >  
>

-----

Date: Fri, 1 Aug 2003 20:49:22 -0400  
From: "Paul Womble" <pwomble@verizon.net>  
To: "'FPigs'" <fpqrp-1@mpna.com>  
Cc: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [155308] ARRL Diamond Club  
Message-ID: <000101c3588f\$ea1e7ca0\$6401a8c0@house>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I just joined the club. So can you for only \$75.00.

I figured that was what I would spend on some type of station accessory  
so why not put it to good use now.

<https://www.arrl.org/forms/development/donations/diamondclub>

73  
Paul K4FB

-----  
Date: Fri, 1 Aug 2003 19:02:49 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,  
      Low Power Group <qrp-1@LeHigh.EDU>  
Subject: [155309] Fox - Summer Fox Hunt Teams Results.  
Message-ID: <Pine.LNX.4.33.0308011900420.7890-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #15 - N1FN -

The Cajun Thunder - 41

The Cheeseheads - 0

Wayne - K5EOA \*  
Vern - AA50 \*  
Wayne - N5YFC \*  
Jim - N5IB  
Mike - VA6MJT

Jerry - N9AW  
Rick - NK9G  
Jim - WA9TZE  
Gary - W9XT  
and one more.

The NE-TX Tornados - 60

Lew - N5ZE \*  
Joe - KK5N \*  
Wayne - W5KDJ \*  
Doc - W5TB  
George - W5YR \*

...any corrections, please e-mail me direct...72 - Bruce (VE5RC+VE5QRP)

-----  
Date: Fri, 1 Aug 2003 19:05:25 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,  
Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [155310] Fox - Summer Fox Hunt Teams Results.  
Message-ID: <Pine.LNX.4.33.0308011902540.7890-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt # 16 - N3BJ -

The Cajun Thunder - 44

The Cheeseheads - 0

Wayne - K5E0A \*  
Vern - AA50 \*  
Wayne - N5YFC \*  
Jim - N5IB  
Mike - VA6MJT

Jerry - N9AW  
Rick - NK9G  
Jim - WA9TZE  
Gary - W9XT  
and one more.

The NE-TX Tornados - 65

Lew - N5ZE \*  
Joe - KK5NA \* Clean  
Wayne - W5KDJ \* Sweep  
Doc - W5TB \*  
George - W5YR \*

...any corrections, please e-mail me direct...72 - Bruce (VE5RC+VE5QRP)

-----  
Date: Sat, 2 Aug 2003 02:17:47 +0000 (GMT)  
From: "Adam Vazquez Kb2Jpd" <adamvaz@palm.net>  
To: <mizuhoradio@yahooogroups.com>  
Cc: <NN7K@reno.rmci.net>  
Subject: [155311] re: [mizuhoradio] Mizuho part availability  
Message-ID: <20030802021747.E6A6A4509@mo130uhou.palm.net>  
Mime-Version: 1.0  
Content-Type: text/plain

It is common but I don't know what size it is. If you can find the equivalent length spacer post on the PCB and replace it to mate, there are excellent replacement screws used on desktops-the top of the head have the thumbgrips as well as the coin slot built in the head.

I think you should ask some of the homebrewers on QRP-L for a freebee.

---

Adam Vazquez Kb2Jpd-from my Palm(TM) i705 wireless handheld

"We read to know we are not alone."  
Shadowlands -William Nicholson

NN7K@reno.rmci.net wrote:

-----  
>Hi, I aquired a AEA DX Handy for 10 meters (made for them by MIZUHO) , on  
>the bay of " E ", and it is complete, except for the Battery Cover Screw.  
>It is obviously metric, and the screw size seem like 2 mm, or 2.5 mm. The  
>Slotted part (for a screwdriver) is aprox. 3/8 inch (very big head for a  
>screw this size).  
>Is there anyone that knows the size of this screw (even if normal size), or  
>is there a source for a exact replacement for this screw? upon going to  
>Lowes, and couple other places, find that their assortment's only goes down  
>to 3 mm. T.I.A., Jim NN7K  
>  
>  
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><http://us.click.yahoo.com/s00ANB/LIdGAA/ySSFAA/ELTo1B/TM>  
>-----~>  
>  
>To unsubscribe from this group, send an email to:  
>[mizuhoradio-unsubscribe@yahoogroups.com](mailto:mizuhoradio-unsubscribe@yahoogroups.com)  
>  
>  
>  
>Your use of Yahoo! Groups is subject to <http://docs.yahoo.com/info/terms/>  
>  
>  
>

-----  
Date: Sat, 2 Aug 2003 02:17:58 +0000 (GMT)  
From: "Adam Vazquez Kb2Jpd" <[adamvaz@palm.net](mailto:adamvaz@palm.net)>  
To: <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [155312] fwd:[mizuhoradio] Mizuho part availability  
Message-ID: <20030802021758.F178E4505@mo120uhou.palm.net>  
Mime-Version: 1.0  
Content-Type: text/plain

Can anyone help?

---  
Adam Vazquez Kb2Jpd-from my Palm(TM) i705 wireless handheld

"We read to know we are not alone."  
Shadowlands -William Nicholson

NN7K@reno.rmci.net wrote:

-----  
>Hi, I aquired a AEA DX Handy for 10 meters (made for them by MIZUHO) , on  
>the bay of " E ", and it is complete, except for the Battery Cover Screw.  
>It is obviously metric, and the screw size seem like 2 mm, or 2.5 mm. The  
>Slotted part (for a screwdriver) is aprox. 3/8 inch (very big head for a  
>screw this size).  
>Is there anyone that knows the size of this screw (even if normal size), or  
>is there a source for a exact replacement for this screw? upon going to  
>Lowes, and couple other places, find that their assortment's only goes down  
>to 3 mm. T.I.A., Jim NN7K  
>  
>

-----  
Date: Fri, 01 Aug 2003 03:24:38 -0400  
From: Alex <kr1st@amsat.org>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [155313] Re: BPL threat ( was: Re: VEC Petition)  
Message-ID: <3F2A15B6.1CCCB03D@amsat.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

K7V0 wrote:

> That only perhaps  
> 1% of active hams made donations and half that number filed comments is  
> a sad commentary on the state of ham radio today.

I understand you're disappointed, but I think that it is not a correct measure of the "state of ham radio today". Only a quantitative comparison between responses received on past issues and current ones may give some (one) indication on what this state is, if there even is such a thing.

Personally I think the state of ham radio is rather good. I remember this op-ed piece in QST not too long ago in which the author argued that there was very little progress in ham radio especially concerning the advancement of technology. I still remember the discussions we had on this list and others vividly regarding this piece. The author wrote a follow up in which he expressed how overwhelming the evidence of the opposite was.

I think when people start focussing in on the negatives of any subject, people often loose focus of the good things that happen also. I'm certainly not saying I'm not guilty of that. By keeping pointing out the negatives and expressing our disappointment in something others may get convinced of that, too.

Yes, if one chooses to focus on one aspect, you may get the impression that the state ham radio is in is not all that great.

> I don't have to wonder. It's plainly evident if I keep my eyes open.

You words, not mine.

> They seem to be a pretty good window on the active members of the ham

> community. Yes, there is a silent majority, and they are even less  
> likely to act.

I would open the curtains and take a good look out of that window. What you will see is the same 20 or so people posting over and over. Adults acting as 12 year olds, and 12 year olds acting as 12 year olds. As I said earlier, it's just a sandbox, the playgrounds are much bigger than that.

Open this window on this wonderful world of ham radio. Take the last 5 years of QST. Write down the names of all the authors who have contributed articles. Now compare this list to the folks you find on Eham and QRZ and see how many you will actually find there. Those are the folks that make ham radio what it is, not those 12 year olds who write their opinion on Eham or QRZ. Being active and vocal on one of those sites has very little to do with ham radio and most certainly does not say anything about the active ham. The squeaky wheel is often represented by a minority. Just because some folks are vocal, that doesn't mean they actually represent anyone or any group. In the mean time, The Active Ham is tickling ions in the sky.

Most hams I talk to on the bands are not on any of those sites or lists. Perhaps your experience is different. We all choose who we talk to and who we don't. I just wrote 124 cards to hams who are very active. I've not seen one of them on QRZ or Eham. There are tons of active hams in the clubs around here, not a single one frequents these sites, except to perhaps get QSL information.

The majority is not silent, we need to learn how and where to listen. We choose the windows we look out from.

> Considering  
> that the NTIA posted comments in favor of BPL I would not hold my  
> breath.

Actually, I've not seen the NTIA post any comments. But then again, I've stopped checking a few days after the closing date. The must have filed late? (as they do rather frequently)

> The fact is there is nothing to do right now but wait for the NPRM

No, you can do something. You can file comments of the comments filed.

73,  
--Alex KR1ST

-----



Date: Fri, 1 Aug 2003 22:28:59 -0400  
From: "Mike, KI8IK" <KI8IK@comcast.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [155314] RE: etch a sketch??  
Message-ID: <NFBBLKICMLDIENKFMIJBGEPCDAA.KI8IK@comcast.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Have you tried asking the Ohio Art Company  
<http://www.world-of-toys.com/> if there's any possibility  
of purchasing it unassembled (minus the aluminum of course)

73,  
Mike - KI8IK  
Saline, MI

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of  
KD7SNX Rob. C  
Sent: Friday, August 01, 2003 4:09 PM  
To: Low Power Amateur Radio Discussion  
Subject: etch a sketch??

I was looking around in my 6 year brothers room for a "box" to put a radio  
in I can across a Mini etch a sketch. It has two knobs on it too. It is  
about 4in long, and 3 1/2 wide and maybe 1 in tall. it would be perfect for a  
sw of rockmite, but I can't get it open!! I tried several things, and now it  
looks like junk with all the holes and scratches, but I can get another.  
what my question is..... has anyone experimented with this, and if so how do  
you get it open without scratching it!!

73  
Rob C.  
KD7SNX  
[www.qsl.net/kd7snx](http://www.qsl.net/kd7snx)

-----  
Date: Fri, 1 Aug 2003 23:04:29 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: "Lee Mairs" <lmairs@direcway.com>,  
        "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [155315] Re: Learning to SEND Morse  
Message-ID: <006601c358a2\$cb6bed20\$0200a8c0@charter.net>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> You think that's bad? In NOrthern Virginia \_every\_ phone dialing  
requires  
> an area code!  
> 73 de Lee  
> km4yy/8

We've had manadatory 10-digit dial here for a long time. Even to call  
next door...

Contrast that with the fact that the community I live in was one of the  
LAST to be upgraded here in Mass from the old 'click and bang'. In  
fact, when I moved here in 87, we still had 5-digit dial. Just dial a  
'4', then a 4 digit number for anyone in town...

-----  
Date: Fri, 01 Aug 2003 23:11:28 -0400  
From: "Bill, N4QA" <n4qa@hotmail.com>  
To: qrp-l@Lehigh.EDU  
Subject: [155316] PSK31 QSO using IC-703 with driver transistor removed from  
radio! Get DOWN!  
Message-ID: <BAY1-F24uDC1ziOD3fU0000c72d@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Gang,  
I'm in a bit of a shock right now.  
I just worked Aldo, YV5AAX on 20 meter PSK31 using the Icom IC-703 with the  
transmitter driver transistor, Q150 totally removed from the rig!  
According to the WM-2, my power output was approximately ten milliwatts  
p.e.p.  
I say this because during psk modulation, the WM-2 registered about 5  
milliwatts RMS, and at the end of my transmissions...you know...that one  
second or so cw tail...WM-2 registered ten milliwatts.  
Now, Aldo had very strong sigs here tonight but he was constantly answering  
calls from other stations during the TARA Grid Dip contest. I finally got  
through during a silent period, I guess.

Looking at the '703's transmitter circuitry in the service manual, a small

amount of energy from the pre-driver stage, Q101, makes it to the phase-splitter rf transformer which then drives the push-pull finals... Not a whole lot of drive power there, so the finals can only manage about ten milliwatts out.

I THOUGHT this might work, but I was flabbergasted when Aldo returned my call.

Ok, I'm a believer in PSK31 as a low-per mode now...

Why is the driver transistor out of my '703?

Because I finally proved that my intermittent transmit power output was caused by some sort of intermittent lead bond within the driver transistor! Ordered a couple of replacements from Icom.

I showed the bad transistor to the XYL. Know what she said?

Martha said "What if the replacement parts are bad too?"

I wish she hadn't said that...

73.

Bill, N4QA

<http://www.n4qa.com>

---

Tired of spam? Get advanced junk mail protection with MSN 8.

<http://join.msn.com/?page=features/junkmail>

---

Date: Fri, 1 Aug 2003 23:11:54 -0400

From: "Mike Yetsko" <[myetsko@insydesw.com](mailto:myetsko@insydesw.com)>

To: <[w6toy@erols.com](mailto:w6toy@erols.com)>,

"Low Power Amateur Radio Discussion" <[qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)>

Subject: [155317] Re: etch a sketch??

Message-ID: <008501c358a4\$31ce7280\$0200a8c0@charter.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

> The seams may be ultrasonically welded. This is often the case  
> (situation) with inexpensive plastic products. There is almost no neat  
> and clean way to get them open.

>

> 73

Yes there is.

Cold.

If there is any dissimilarity in the materials, use cold to pop the seam. I used to use it to pop open Radio Shack TRS-80 power supplies that were welded shut. I could get them open without leaving detection if I used a padded vice. If I was careful with the glue, most people couldn't detect that I had been in the things. In fact, after I glued them back together, if I opened them again, they could be tougher to open

Spray the 'seam' with freeze spray. When the plastic is cooled down as far as it can go, stress the seam longitudinally. It should pop along the seam. To stress it, try to use a bar of metal that you can lay on one side of the seam and gently press, like in a vice (if small enough) or with big wood worker clamps. Don't lay the bar ON the seam. You want the plastic to deform from pressure NEXT to the seam, and transmit the stress vector 'across' the seam.

-----  
Date: Sat, 2 Aug 2003 00:00:08 -0400  
From: K7VO <k7vo@earthlink.net>  
To: n4qa@hotmail.com  
Cc: qrp-l@lehigh.edu  
Subject: [155318] Re: PSK31 QSO using IC-703 with driver transistor removed from radio! Get DOWN!  
Message-ID: <200308020000008.6af1720e.k7vo@earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

On Fri, 01 Aug 2003 23:11:28 -0400  
"Bill, N4QA" <n4qa@hotmail.com> wrote:

> I just worked Aldo, YV5AAX on 20 meter PSK31 using the Icom IC-703  
> with the transmitter driver transistor, Q150 totally removed from the  
> rig!

Very, very cool.

>

> I THOUGHT this might work, but I was flabbergasted when Aldo returned  
> my call.

> Ok, I'm a believer in PSK31 as a low-per mode now...

I'm going to have to try PSK31 with my Mizuho MX-15 without the amp

(300mW out on 15 meters). You've inspired me, Bill.

.  
> I showed the bad transistor to the XYL. Know what she said?  
> Martha said "What if the replacement parts are bad too?"  
> I wish she hadn't said that...

It sounds like you married a smart woman. I'd be a bit worried myself.  
Hopefully Icom will send you good parts and all will be well.

72,  
Caity  
K7VO

-----  
Date: Fri, 1 Aug 2003 21:34:13 -0700  
From: "David Fifield" <dave@redhotradio.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [155319] Re: [OT] Aluminum Welding Question  
Message-ID: <006f01c358af\$533725b0\$0200a8c0@ad6a>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bob et al,

I have used these aluminum welding rods a lot. They work very well indeed. The aluminum does not melt. It's just like soldering - if and only if you have very clean surfaces. I use a stainless steel wire brush for this. Some of the joints I have made take several hundred pounds all day long every day and have been in service now for a couple of years or more (on my microwave dishes). I thoroughly recommend these things. Check out:

<http://www.newtechnologyproducts.net/>

Cheers es 72,  
Dave Fifield, AD6A

-----  
Date: Sat, 2 Aug 2003 07:36:39 -0400  
From: John R Kirby <n3aaz-qrp@juno.com>  
To: n4qa@hotmail.com, k7vo@earthlink.net, qrp-l@Lehigh.EDU  
Subject: [155320] An OUTSTANDING QRPpp Mode  
Message-ID: <20030802.073817.-310775.1.n3aaz-qrp@juno.com>  
MIME-Version: 1.0

Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

You think PSK31 is gQqD QRP mode?

Try QPSK ! ! !

...note...  
PSK is not sideband perceptive.

QPSK is sideband specific,  
that is BOTH stations must be on the SAME sideband.

145 (72+73)  
John  
N3AAZ  
00TC  
FM 19 xa

>>"Bill, N4QA" <n4qa@hotmail.com> wrote:  
>> I just worked Aldo, YV5AAX on 20 meter PSK31 using the Icom IC-703  
>> with the transmitter driver transistor, Q150 totally removed from the  
>> rig!  
>>Very, very cool.  
>> I THOUGHT this might work, but I was flabbergasted when Aldo returned  
>> my call.  
>> Ok, I'm a believer in PSK31 as a low-per mode now...  
>>I'm going to have to try PSK31 with my Mizuho MX-15 without the amp  
>>(300mW out on 15 meters). You've inspired me, Bill.  
>>From: K7VO <k7vo@earthlink.net>  
>>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
>>Date: Sat, 2 Aug 2003 00:00:08 -0400  
>>Subject: Re: PSK31 QSO using IC-703 with driver transistor removed  
>>from radio! Get DOWN!

---

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Surf the web up to FIVE TIMES FASTER!  
Only \$14.95/ month - visit [www.juno.com](http://www.juno.com) to sign up today!

-----  
Date: Sat, 02 Aug 2003 08:15:22 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: n2uhc@yahoo.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [155321] Re: etch a sketch??  
Message-ID: <3F2BAB5A.137A94A4@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

More than likely they are sealed for EPA approval.. They can shut you down faster than you can see!

73

-----  
Date: Sat, 2 Aug 2003 12:38:04 EDT  
From: Fghester@aol.com  
To: pwomble@verizon.net, qrp-1@lehigh.edu  
Subject: [155322] Re: ARRL Diamond Club  
Message-ID: <10d.280a2972.2c5d42ec@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Yay Paul!!! Welcome to the Diamond Club &, for what it's worth coming from me, thanks for supporting the ARRL! / Woody / WD9F / Illinois Section

-----  
Date: Sat, 2 Aug 2003 13:02:56 -0400  
From: "w8diz" <w8diz@cinci.rr.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [155323] Re: Atmel-AVR Processors  
Message-ID: <001401c35917\$eb947200\$b8cf1d41@cinci.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Hi All,

I would like to get in touch with any resident AVR experts.  
Most everyone is an expert, since I'm just getting started :)

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio  
Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W  
RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>

-----  
Date: Sat, 2 Aug 2003 10:09:33 -0700  
From: Steve Smith <sigcom@juno.com>  
To: qrp-1@Lehigh.EDU  
Cc: glowbugs@piobaire.mines.uidaho.edu  
Subject: [155324] Info on 117N7 rig  
Message-ID: <20030802.100934.3488.0.sigcom@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Looking for info, links, etc. re: 117N7, L7, P7 tube transmitter. Google searches haven't turned up much for me. TNX

73.....Steve Smith, WB6TNL  
Oxnard, CA USA  
"Snort Rosin"

-----  
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-----  
Date: Sat, 2 Aug 2003 12:22:50 -0500  
From: Rob Matherly <w0jrm@arrl.net>  
To: fpqrp-1@fpqrp.com, qrp-1@lehigh.edu  
Subject: [155325] Interesting webpage!  
Message-ID: <200308021222.50949.w0jrm@arrl.net>  
Content-Type: text/plain;  
charset="us-ascii"  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable

[http://www.qsl.net/wb7rht/novice\\_accent.htm](http://www.qsl.net/wb7rht/novice_accent.htm)

It should be required reading :^)

72/73/oo  
Rob, w0jrm

-----



Date: Sat, 2 Aug 2003 11:48:36 -0600  
From: "NR5A" <nr5a@rap.midco.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [155326] Re: Interesting webpage!  
Message-ID: <001701c3591e\$4cf2b010\$3865dc18@jerry>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I remember getting a copy of that from my elmer when I first got my Novice ticket way way way back in Sept 1967. It was good reading then, and its still good reading!

Jerry - NR5A - South Dakota

----- Original Message -----  
From: "Rob Matherly" <w0jrm@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Saturday, August 02, 2003 11:22 AM  
Subject: Interesting webpage!

> [http://www.qsl.net/wb7rht/novice\\_accent.htm](http://www.qsl.net/wb7rht/novice_accent.htm)  
>  
> It should be required reading :^)  
>  
> 72/73/oo  
> Rob, w0jrm  
>

-----  
Date: Sat, 2 Aug 2003 14:01:30 -0400  
From: "Norman Schklar" <norman@schklar.com>  
To: <qrp-1@lehigh.edu>  
Subject: [155327] RE: etch a sketch??  
Message-ID: <!--!  
UENERkVCMDkAAQACAAAAAAAAAAAAAAAAABgAAAAAAAAAf0aS2LTNrEW6u0ehmwAhKcKEAAAQAAAADdLKJw  
EStEmpSRmVIQgWnwEAAAAA@schklar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="us-ascii"  
Content-Transfer-Encoding: 7bit

How about a saw? Table or band saw, or hack saw. If you have some sort of jig to hold a Dremel type blade might work.

Norm Schklar, WA4ZXV  
Norcross, GA wa4zxv@arrl.net, 770-840-9664 --QRP-L member #2499

-----Original Message-----

From: Bruce Muscolino [mailto:w6toy@erols.com]  
Sent: Saturday, August 02, 2003 8:15 AM  
To: Low Power Amateur Radio Discussion  
Subject: Re: etch a sketch??

More than likely they are sealed for EPA approval.. They can shut you down faster than you can see!

73

-----  
Date: Sat, 02 Aug 2003 14:27:59 -0400  
From: "Bill, N4QA" <n4qa@hotmail.com>  
To: qrp-l@Lehigh.EDU  
Subject: [155328] Re: Info on 117N7 rig  
Message-ID: <BAY1-F139XifWoqFXfy0000d789@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Steve and gang,

I think this homebrew 117N7GT QRP tube rig is kinda neat:

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3036511157>

Shows the schematic and everything.

Watch out for that direct connection to the ac line, though...

73.  
Bill, N4QA  
<http://www.n4qa.com>

-----

-----  
Date: Sat, 02 Aug 2003 12:38:24 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: qRP-L@lehigh.edu  
Subject: [155329] FOX: Final log for N2WW 7/27  
Message-ID: <3F2BB0C0.9746.F1037@localhost>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

SUMER FOXHUNT 27 JULY 2003

CALL N2WW  
NAME LARRY  
RIG OHR100  
ANT C3@40'  
QTH N1FN  
EXCH 559 CO LARRY 5W  
TIME GMT

22.03	WA8BXN	559	OH	MIKE	5W
22.03	N1FN	559	CO	ET	5W
22.06	W5YR	569	TX	GEORGE	5W
22.06	N1TP	559	FL	TOM	5W
22.07	AA50	559	LA	VERN	5W
22.08	WE9K	559	WI	GLENN	5W
22.09	K5JHP	559	TX	BOB	5W
22.09	AD5JV	569	LA	ED	5W
22.11	K5SR	559	TX	DALE	5W
22.11	AA7EQ	559	AZ	BOB	5W
22.12	N6RZ	559	CA	DALE	5W
22.13	K5EOA	559	LA	WAYNE	5W
22.14	AF4PP	559	GA	CHUCK	4W
22.15	W6AZ	559	CA	RON	5W
22.16	W5KDJ	559	TX	WAYNE	250mW
22.17	KK5NA	559	TX	JOE	5W
22.18	W9ZJX	599	IL	AL	5W
22.18	KB0R	559	MN	LARRY	5W
22.19	K4QA/QRP	559	NC	DAVE	5W
22.21	N5ZE	559	TX	LEW	5W
22.22	K0MAX	559	MN	MAX	5W
22.23	N5YFC	559	LA	WAYNE	5W
22.23	W5JAY	599	AR	JAY	1W

22.24	K2RSK		559	NY	PETER	5W
22.25	K1WAY		559	NY	MIKE	5W
22.26	N3BB	559	VA	PUCK	5W	
22.27	KG6WG		569	CA	HOWARD	5W
22.29	K5UV	559	OK	MIKE	5W	
22.33	N0WX	559	MN	MIKE	5W	
22.37	KB2FEL/8		559	WV	BOB	5W

22.42	KG4LDY		559	VA	JIM	5W
22.43	N7MFB		559	WA	BILL	5W
22.56	W0TGB		589	TN	MARK	5W
23.04	K3ESE		559	MD	LLOYD	5W
23.05	K2ZN	559	NY	AL	5W	
23.11	K7TQ	559	ND	RANDY	1W	
23.12	WB7AEI		449	WA	PHIL	5W
23.13	K7FD	599	OR	JOHN	5W	
23.19	N6WG	559	CA	BOB	5W	
23.27	K7HBN		559	WA	GEORGE	5W

23.28	N2WW	XXX	CO	LARRY	5W
23.29	N3BJ	XXX	VA	ALAN	5W

TOTAL = 42 QSO.

THANK YOU ALL FOR QSO.

73, DE LARRY N2WW / UA6HZ / T32WW

P.S. TWO HAMS WITH CALL'S KA9YCB AND W4CLM START TO MAKE QSO ON MY FREQ AT 22.30 AND FINISHED AFTER 45 MIN. I TRY TO EXPLAIN ABT FOX HUNT, I AM HERE 30 MIN, BUT 10WPM ON MY TRANSMITION MAYBE VERY HIGH SPEED FOR THOS TWO VERY BEST OPERATORS. IT TAKES 45 MIN TO GET CLEAR FREQ.

-----

Date: Sat, 02 Aug 2003 12:48:40 -0600  
 From: "Marshall Emm" <mgemm@mtechnologies.com>  
 To: qRP-L@lehigh.edu  
 Subject: [155330] FOX: ET Notice for Tomorrow  
 Message-ID: <3F2BB328.32162.187672@localhost>  
 MIME-Version: 1.0  
 Content-type: text/plain; charset=US-ASCII  
 Content-transfer-encoding: 7BIT  
 Content-description: Mail message body

Hi, guys...

Lloyd and I will be heating up the airways tomorrow in the penultimate summer fox hunt. Look for one of us above 14.060, and the other below.

Fingers crossed for good condx, but if you have trouble just keep trying-- all of the problematic factors can change very quickly and you never know when your signal is going to pop up out of the mud for a minute or two.

Good luck, and may the Fox be with you!

73 DE ET  
Marshall, N1FN73  
Marshall Emm  
N1FN/VK5FN  
n1fn@MorseX.com  
Morse Express and Oak Hills Research  
"Everything for the Morse Enthusiast"  
<http://www.MorseX.com>  
<http://www.ohr.com>  
(303)752-3382  
--

-----  
Date: Sat, 02 Aug 2003 15:26:05 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: n4qa@hotmail.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [155331] Re: Info on 117N7 rig  
Message-ID: <3F2C104D.C99DE34E@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I built a 117L7GT rig many years ago, about 1957, from an article that appeared in CQ magazine. This was the third or fourth in a series of articles by the same builder. This particular radio used a chassis fabricated from hardware cloth and wood. I made one QSO with the rig, about 200 miles away in Dayton. Then I gave in to safety and crushed the thing so I wouldn't be shocked to death! Actually it was a very nice rig. I hope to build another but with safety included.

73  
-----

Date: Sat, 02 Aug 2003 15:28:00 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: sigcom@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [155332] Re: Info on 117N7 rig  
Message-ID: <3F2C10C0.99287D37@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Try CQ magazine circa 1955 to 1957.

73

-----  
Date: Sat, 2 Aug 2003 20:34:20 +0100  
From: "Paul Stroud" <aa4xx@bellsouth.net>  
To: <qrp-1@lehigh.edu>  
Cc: <klqrp@knightlites.org>  
Subject: [155333] 40M QRPP beacon  
Message-ID: <000001c3592d\$11e2c320\$6101a8c0@m1d0u0>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hi Gang,

I'm currently running a 25mW CW beacon on 7051.0 khz.  
This attended beacon will run thru 7AM EDT Monday morning local time  
(1100 UTC Monday).

The beacon tx is an Argonaut V, followed by an attenuator. The antenna  
is a ladderline fed dipole. Power is being monitored with a WM-1  
wattmeter and a Tektronix scope. Frequency is being monitored with  
Spectran, referenced to CHU on 7335.0 khz.

The beacon string is as follows:

"VVV 25 mW beacon <codeword repeated 10 times> de AA4XX/B"

Confirmation reports would be appreciated. Pse do not give the code  
word away in any public postings. The beacon will be turned off if any  
thunderstorms approach but will be restarted immediately thereafter.

Have fun! 72, Paul AA4XX

-----  
Date: Sat, 2 Aug 2003 15:37:23 -0400  
From: Brian Short <bshort4@cox.net>  
To: Low Discussion <grp-1@Lehigh.EDU>  
Subject: [155334] Re: Atmel-AVR Processors  
Message-ID: <BD5D44F0-C520-11D7-88C4-00306543B616@cox.net>  
Content-Type: text/plain; charset=US-ASCII; format=flowed  
Mime-Version: 1.0 (Apple Message framework v552)  
Content-Transfer-Encoding: 7bit

I am NOT an AVR expert, but let me interject...

A very non-threatening way to start working with the AVR is via the Net Media Basic-X 24. It is along the same idea as a Basic Stamp 2, but uses a more powerful AVR than the PIC used in the BS2. The BX-24 is pin compatible with Basic Stamp 2 stuff, but offers additional features like built-in AD converters, etc.

Depending on the project, the BX-24 may be just the thing if you are planning on programming with a BASIC dialect anyway.

If you are planning on assembler level programming, my observation is that the AVR has a simpler programmer's model (load-store with general purpose registers).

One thing to remember is that there is the "instruction set" and processor core, but then there are a collection of various addressable hardware devices - counters, timers, discrete I/O, interrupts, etc.

I have been working with RISC processors since 1986 when while working at Motorola under non-disclosure I evaluated the Motorola 78000 (called the 81000 at public release) for use in executing compiled Prolog. The major share of the research was adding hardware data type tags and stack instructions and evaluating performance with working experimental compilers, optimizers, and instruction reorganizers on an instrumented simulator (and modified simulator).

And this is something I can recommend... use an instruction

set simulator to test out programs even if you have no actual hardware.

In the Motorola case, our group (me and an old EE who died of a heart attack after work one night) built and programmed an "evaluation board" eventually, but most of my Thesis (delayed and forced to be a report by Motorola and made proprietary, "Defense" professors signed non-disclosures) was completed with software simulators.

I guess actually running the same stuff on hardware with a hardware clock counter validated the results to some extent. The evaluation board used static RAM with no cache on either instruction or data ports and so memory system cache behavior was not an issue.

Anyway, these are my suggestions -

Try the Net Media BX-24.

Check into the AVR software tools (assembler, loader, instruction set simulator).

There are many types of simulators (e.g. SPICE etc), but an instruction set simulator takes the .EXE equivalent (like a COFF file) reads it in and executes it as if it were running on the actual CPU, but allows inspecting registers, breakpointing, etc.

I have not done much assembler programming with any of the AVR family.

You wouldn't want to hear anyway, but in case you wondered, the "Report" for completion of my Graduate Degree is still proprietary and is filed with the Motorola Patent Office though warranted no usable actual Patents. Anyway, I can't talk about it ( I guess). I voluntarily resigned with severance etc etc before a big round of layoffs in 1988.

Motorola, the news paper recently pointed out, is not even in the top 10 semiconductor manufacturers at this time.

Brian

On Saturday, August 2, 2003, at 01:02 PM, w8diz wrote:

> Hi All,

>

> I would like to get in touch with any resident AVR experts.



> Most everyone is an expert, since I'm just getting started :)  
>  
> 72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio  
> Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W  
> RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>

--

See my web page: <http://www.k7on.com>

-----  
Date: Sat, 02 Aug 2003 14:09:36 -0400  
From: dhuggard@cts.com (Doug Huggard)  
To: dpayton@fwi.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [155335] Re: Favorite NiMH Charger?  
Message-ID: <g5/K/UmbNvvL091yn@cts.com>

Dennis,

Jameco has a "universal" NiMH battery charger that handles AAA, AA, C, D and 9v batteries.

For more info go to

<http://www.jameco.com>

and search for item # 185295.

72.5 +/- 0.5,

Doug - WB6AJX

-----  
Date: Sat, 2 Aug 2003 16:15:11 -0500  
From: "Michael Melland" <w9wis@charter.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [155336] OT: Linux Computer at Sam's Club !  
Message-ID: <001201c3593b\$2add6200\$0200a8c0@computer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I saw this system being demonstrated at my Sam's Club today.... \$299 without a monitor but a nice suite of software and a very nice set of components ! And dopy me ... never checked on what Linux release it was.... but it does have open office and all the goodies.

[http://www.samsclub.com/eclub/main\\_shopping.jsp?mt=a&n=0&BV\\_SessionID=\\_SC\\_0873728913.1059857826\\_CS\\_&BV\\_EngineID=ccdeadcimihkmkhcfkfcfkjdgoodfkg.0&coe=0&oidPath=0%3a-23541%3a-29062%3a-29083%3a-29112%3a702160](http://www.samsclub.com/eclub/main_shopping.jsp?mt=a&n=0&BV_SessionID=_SC_0873728913.1059857826_CS_&BV_EngineID=ccdeadcimihkmkhcfkfcfkjdgoodfkg.0&coe=0&oidPath=0%3a-23541%3a-29062%3a-29083%3a-29112%3a702160)  
--

Michael Melland, W9WIS  
Winneconne, Wisconsin USA EN54pc  
qrp-l #1656 - qrparci # 9875 - iparc #252  
ars #1075 - <http://webpages.charter.net/w9wis/>

-----  
Date: Sat, 2 Aug 2003 15:07:38 -0700  
From: "Alan Kaul, W6RCL" <[alan.kaul@worldnet.att.net](mailto:alan.kaul@worldnet.att.net)>  
To: "Low Power Amateur Radio Discussion" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [155337] 2004 Fort Tuthill  
Message-ID: <009201c35942\$7de6d7e0\$ff40cd18@charterpipeline.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Does anyone know the dates for next year's Forth Tuthill gathering???

Alan Kaul, W6RCL, LaCanada, CA  
[w6rcl@amsat.org](mailto:w6rcl@amsat.org)  
<http://home.att.net/~alan.kaul/index.html>

-----  
End of QRP-L Digest 3000  
\*\*\*\*\*  
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